

**AMENDMENTS TO THE CLAIMS**

1-19. (Canceled)

20. (New) A method, comprising:

- a. recording at a first site electroencephalographic (EEG) data from a patient comprising electrodes;
- b. storing said EEG data as a digital file; and
- c. transmitting said digital file to a second site.

21. (New) The method of Claim 20, wherein said transmitting further comprises compressing and encrypting said digital file.

22. (New) The method of Claim 20, further comprising step (d) converting said digital file into said EEG data and processing said EEG data so as to generate a report comprising a medication response prediction.

23. (New) The method of Claim 22, wherein said converting further comprises decompressing and decrypting said digital file.

24. (New) The method of Claim 20, wherein said patient has recieved a psychiatric diagnosis.

25. (New) The method of Claim 20, wherein said patient, prior to said recording of step (a), has discontinued all medications for at least seven half-lives.

26. (New) The method of Claim 20, wherein said electrodes are placed on said patient's scalp in accordance with the International 10-20 System convention.

27. (New) The method of Claim 20, wherein said digital file further comprises patient identifying information.

28. (New) The method of Claim 26, wherein said patient identifying information is protected by said encryption.

29. (New) The method of Claim 20, wherein said storing of step (b) is on a recording facility computer comprising an operating system, a processor, and an internet connection.

30. (New) The method of Claim 20, wherein said processing of step (d) is on a processing site computer comprising an operating system, a processor, and an internet connection.

31. (New) The method of Claim 22, wherein said processing further comprises computing at least one quantitative spectral analysis feature using said EEG data.

32. (New) The method of Claim 31, wherein said quantitative spectral analysis feature comprises EEG absolute power, EEG relative power, EEG coherence, EEG symmetry and mean EEG frequency bands, wherein said frequency bands comprise alpha, beta, delta and theta.

33. (New) The method of Claim 31, wherein said quantitative spectral analysis feature is compared to a neurometric database.

34. (New) The method of Claim 31, wherein said quantitative spectral analysis feature is compared to a patient database.

35. (New) The method of Claim 22, wherein said report further comprises a professional medical interpretation of said EEG data.

36. (New) The method of Claim 22, wherein said report further comprises a presentation of selected said quantitative spectral analysis features.

37. (New) The method of Claim 22, wherein said report further comprises a presentation of deviations from said neurometric database.

38. (New) The method of Claim 22, wherein said report further comprises a statement of the likelihood of favorable pharmacotherapeutic outcome based on said comparison with said patient database.

39. (New) A method, comprising:

- a. recording at a first site electroencephalographic (EEG) data from a patient comprising electrodes;
- b. storing said EEG data as a digital file;
- c. transmitting said digital file to a second site;
- d. processing said digital file to compute at least one quantitative spectral analysis feature using said EEG data; and
- e. comparing said quantitative spectral analysis feature to a neurometric database and a patient database.

40. (New) The method of Claim 39, wherein said quantitative spectral analysis feature comprises EEG absolute power, EEG relative power, EEG coherence, EEG symmetry and mean EEG frequency bands, wherein said frequency bands comprise alpha, beta, delta and theta.

41. (New) The method of Claim 39, wherein said transmitting further comprises compressing and encrypting said digital file.

42. (New) The method of Claim 39, further comprising step (f) generating a report comprising a medication response prediction based upon said comparing to said neurometric database and said patient database.

43. (New) The method of Claim 39, wherein said processing further comprises decompressing and decrypting said digital file.

44. (New) The method of Claim 39, wherein said patient has recieved a psychiatric diagnosis.

45. (New) The method of Claim 39, wherein said patient, prior to said recording of step (a), has discontinued all medications for at least seven half-lives.
46. (New) The method of Claim 39, wherein said electrodes are placed on said patient's scalp in accordance with the International 10-20 System convention.
47. (New) The method of Claim 39, wherein said digital file further comprises patient identifying information.
48. (New) The method of Claim 47, wherein said patient identifying information is protected by said encryption.
49. (New) The method of Claim 39, wherein said storing of step (b) is on a recording facility computer comprising an operating system, a processor, and an internet connection.
50. (New) The method of Claim 39, wherein said processing of step (d) is on a processing site computer comprising an operating system, a processor, and an internet connection.
51. (New) The method of Claim 42, wherein said report further comprises a professional medical interpretation of said EEG data.
52. (New) The method of Claim 42, wherein said report further comprises a presentation of selected said quantitative spectral analysis features.
53. (New) The method of Claim 42, wherein said report further comprises a presentation of deviations from said neurometric database.
54. (New) The method of Claim 42, wherein said report further comprises a statement of the likelihood of favorable pharmacotherapeutic outcome based on said comparison with said patient database.